

TEST TUBE

85: 878x Gas analysis of cigaret smoke according to the test tube method. Huneke, Karl H. (Draegerwerk A.-G., Luebeck, Ger.). *Chem.: Exp. Didakt.* 1976, 2(1), 29-32 (Ger). Samples of cigaret smoke are passed through tubes with appropriate color reagents adsorbed on silica gel, and the amt. of the desired component is detd. from the breadth or intensity of the colored band. CO_2 ; CO; O; H_2S ; H; unsatd. hydrocarbons; esters, alcs., and other oxidizable compds; alkylbenzenes, NO plus NO_2 ; HCN; and volatile carboxylic acids were detd. As an example, the tube for detg. H (to be used only after removal of CO) contains a Pd catalyst for oxidizing H to H_2O ; the H_2O vapor reacts with SeO_2 and H_2SO_4 to give the pink color of elemental Se.

Chemical Abstracts 85: 878x.

10522p Carbon monoxide content in cigaret smoke. Otsuka, Shoji; Fujiwara, Kazuo; Ikawa, Hisayasu; Hirayama, Kiyoshi (Pharm. Inst., Nihon Univ., Tokyo, Japan). *Eisei Kagaku* 1970, 16(3), 150-3 (Japan). Dil. cigaret smoke with 50 vols. air in a new app. and det. CO by Kitagawa test tube detector. The results agree with those by gas chromatog. It takes only 5 min.
K. Kodama

Chemical Abstracts 74: 10522p.